



Dated: 21.11.2019

The Advisor,
Ministry of Environment, Forest and Climate Change
Regional office, Western Region
"Kendriya Paryavaran Bhavan"
Link Road No.3, Ravishankar Nagar
Bhopal-462016 (M.P)

Dear Sir,

Subject: Half Yearly Environmental Clearance Compliance Report for period of April'19 to September'19.

In view of above subject matter, Here, we are submitting the hard copy as well as soft copy of half yearly Environmental Clearance Compliance report along with annexures of EC-2018, No. J. 11011/320/2006-IA II (I) dtd. 22.02.2018 for the report period from April-19 to September-19.

Hope, the same is in order.

Yours Faithfully,
(For Birla Cellulosic)

Sachin Katewale
Asst. Vice President – Technical

Encl. :

1. EC Copy
2. EC-2018 Compliance report (April-19 to September-19)



Birla Cellulose
Fibres from nature

Grasim Industries Limited
Unit - Birla Cellulosic

Works : Birladham, Kharach Kosamba R.S.
Dist. Bharuch (Gujarat) - 394 120 INDIA
CIN : L17124MP1947PLC000410

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Liaison Office : 11th Floor - 1101 & 1102 OCEAN, Opposite Vadodara Central Mall, Vikram Sarabhai Marg, Vadiwadi, Vadodara - 390023, Gujarat - India
Regd. Office : P.O. Birlagram, Nagda (MP) - 456 331. Phone : (07366) 246760-66, Fax : 255198, Website : www.grasim.com

Half-Yearly Compliance REPORT

EC Letter No.: F. No. J-11011/320/2016-IA II (I)

Dated 22.02.2018



Period of compliance: April to September, 2019

FOR

**Expansion of Viscose Staple Fibre Unit
and Coal based CPP**

By

M/s. Birla Cellulosic Ltd.

At

**Birladham, Village: Kharach,
Tehsil: Hansot, District: Bharuch (Gujarat)**

SUBMITTED BY



M/s. Birla Cellulosic
(A Unit of M/s. Grasim Industries Ltd)
Birladham, Village: Kharach, Kosamba (R.S.),
Tehsil: Hansot,
District: Bharuch (Gujrat) – 394120

PREPARED BY



J.M. EnviroNet Pvt. Ltd.
(Registered EIA Consultant Organization from NABET-QCI)
202-A, ABW Tower, MG Road, IFFCO Chowk, Sector 25,
Gurugram - 122 001 (Haryana)
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ENVIRONMENTAL CLEARANCE ACCORDED BY
MOEFCC, NEW DELHI VIDE LETTER NO.: F.No.J-
11011/320/2016-IA II (I) DATED 22.02.2018

F.No. J-11011/320/2016-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Division)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3
Dated: 22nd February, 2018

To,

M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd)
Birladham, Village Kharach,
Taluka Hansot,
District Bharuch (Gujarat)

Sub: Expansion of Viscose Staple Fibre Unit and Coal based CPP by M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat) - Environmental Clearance - reg.

Ref.: Online proposal no. IA/GJ/IND2/59092/2016 dated 18th September, 2017

Sir,

This has reference to your online proposal no. IA/GJ/IND2/59092/2016 dated 18th September, 2017 for environmental clearance to the above project, along with the documents including Form-1, Terms of Reference (ToR), EIA/ EMP report containing the Public hearing proceedings/details.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for Environmental Clearance to the project 'Expansion of Viscose Staple Fibre Unit from 1,27,750 to 2,33,600 TPA and Coal based CPP from 25 MW to 45 MW' by M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) in a total area of 242.81 ha, at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat). The details of existing and proposed products are as under: -

S.No.	Product /Unit	Existing Capacity	Additional Capacity	Total capacity after expansion
1.	Viscose Staple Fibre	127750 TPA	105850 TPA (Debottlenecking: 14600; New Machine: 91250)	233600 TPA
2.	Captive Power Plant	25 MW	20 MW	45 MW

The other products (intermediates/raw materials) presently manufactured include Sulphuric Acid (146000 TPA), Carbon Disulphide (21600 TPA) and Sodium Sulphate (96000 TPA). The Solvent spun cellulosic fibre unit of capacity 109500 TPA and coal based CPP of 71 MW are yet to be commissioned.

3. Existing plant area is 242.81 ha and no additional land shall be required for proposed expansion project. It is proposed to develop greenbelt in an area of 80 ha, thus covering an area of 33% of total project area. Presently, 70 ha area has been developed under greenbelt. Greenbelt planned for 10 ha in next three years. As per Form-1, there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc within 10 km from the project site. Kim river is flowing at 0.5 km in the South.



4. The estimated project cost is Rs.1800 crores (debottlenecking: Rs.12 crores & new machines: Rs.1788 crores). Total capital cost earmarked for pollution control measures is Rs.90 crores and the recurring cost (operation and maintenance) shall be about Rs.11 crores per annum. It has been proposed to allocate Rs.45 crores (debottlenecking: Rs.0.3 Crores, new machines: Rs.44.7 crores) @ 2.5% towards Enterprise Social Commitment.

5. Total fresh water requirement after the proposed expansion will be 22,286 cum/day (existing - 18600 cum/day, additional - 3686 cum/day) to be sourced through from Kim River. Narmada Water Resources Water Supply and Kalpsar Department of the State Government of Gujarat, has already made an allocation for 7 MGD of water from Kim river to meet the total water requirement.

Total effluent generation would be reduced from the present of 11580 cum/day to 11535 cum/day, which is proposed to be treated in the ETP of capacity 24000 cum/day. Treated effluent is to be discharged into Kim Estuary through 23 km long pipeline falling in CRZ area. The unit has already obtained the CRZ clearance from the Ministry vide letter dated 17th January, 2007 for the said pipeline. The domestic effluent of 1500 KLD shall be treated in the STP and then recycled for greenbelt development.

6. Total power requirement after expansion shall be 45 MW. Existing requirement of 25 MW is being met through Captive Thermal Power Plant. After expansion total requirement shall be met from Captive Thermal Power Plant.

Existing unit has 2x100 & 1x120 TPH coal fired boiler. Electrostatics Precipitators with a stack of height of 100 m will be installed for controlling the Particulate emissions (within prescribed norms) for proposed 3x100 TPH coal fired boilers respectively.

7. Details of process emissions along with the control measures are as under:

Emissions	Source	Management Measures
CS ₂	VSF Plant-spinning	<ul style="list-style-type: none"> CS₂ Recovery System (46.55% recovery). Powerful Exhaust System for spinning off gases (CS₂ and H₂S) Air dilution with adequate stack height. Shutters for spinning machine.
	CS ₂ Plant	<ul style="list-style-type: none"> Oil Scrubbing system for recovery of CS₂ Alkali Scrubber Klaus kiln for recovery of sulphur Dust extraction cum Ventury Scrubbing system for Furnaces.
SO ₂	H ₂ SO ₄ Plant	<ul style="list-style-type: none"> Alkali scrubber
	CPP boiler	<ul style="list-style-type: none"> Lime dozing in boiler Adequate stack height (as per CPCB guidelines).
Acid Mist	H ₂ SO ₄ Plant	<ul style="list-style-type: none"> Mist eliminator
PM	CPP boiler	<ul style="list-style-type: none"> ESPs
Fugitive Emission	CPP-handling & Storage	<ul style="list-style-type: none"> Covered storage yard to store coal at the plant site. Silos to store fly ash at the plant site. Transportation of Fly ash through closed tankers / bulkers. Dust collection system to control dust emission. Water sprinkling to reduce dust generation. Greenbelt / plantation done along the plant boundary to attenuate air pollution.

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Emissions	Source	Management Measures
	CS ₂ Plant-Sulphur handling	<ul style="list-style-type: none"> Covered storage yard for storage of sulphur. Sulphur melting in closed system

8. Details of solid/hazardous waste generation and its management are as under:

Plant Unit	Waste	Treatment / Disposal
Acid Plant	Sulphur Filter Residue	TSDf
	Spent Catalyst (V ₂ O ₅)	
ETP	ETP Inorganic Sludge (Gypsum)	Sold to cement industries
Plant Maintenance-Different sections	Oil soaked Cotton Waste & cotton waste	TSDf
	Used Oil	Sent to Authorized Recycler
	Used Resin	Sent to TSDf for disposal
STP	STP Sludge	Used as manure in greenbelt development/ plantation
Proposed CPP	Fly Ash	Will be supplied to Brick manufacturers, Cement industries

9. The project/activity is covered under category A of item 5(d) 'Manmade fibres manufacturing Rayon' of the Schedule to the Environmental Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.

10. The ToR for the project was granted by Ministry vide letter dated 13th February, 2017 and the public hearing was conducted by the SPCB on 30th August, 2017.

11. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 31st meeting held during 23-24 November, 2017. The project proponent and their accredited consultant M/s J.M. EnviroNet Pvt Ltd, presented the EIA / EMP report as per the ToR. The Committee found the EIA / EMP report as satisfactory and complying with the ToR. The Committee has recommended the proposal for grant of environmental clearance.

12. Based on the proposal submitted by the project proponent and subsequent recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project '**Expansion of Viscose Staple Fibre Unit from 1,27,750 to 2,33,600 TPA and Coal based CPP from 25 MW to 45 MW**' by M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) in a total area of 242.81 ha, at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006, subject to the compliance of terms and conditions as below:-

- Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- Total fresh water requirement shall not exceed 22,286 KLD proposed to be met from Kim River water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.



- (c) Total effluent discharge after treatment shall not exceed 11535 cum/day to be discharged to the Kim Estuary through 23 km long pipeline. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- (d) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (e) National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- (f) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers (2x100 & 1x120 TPH) to control particulate emissions within permissible limits. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (g) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (h) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (i) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (j) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (k) The company shall undertake waste minimization measures as below:-
- (i) Metering and control of quantities of active ingredients to minimize waste.
 - (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - (iii) Use of automated filling to minimize spillage.
 - (iv) Use of Close Feed system into batch reactors.
 - (v) Venting equipment through vapour recovery system.
 - (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (l) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (m) All the commitments made regarding issues raised during the public hearing/consultation meeting held on 30th August, 2017 shall be satisfactorily implemented.



- (n) At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (o) The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.
- (p) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (q) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (r) Continuous online (24X7) monitoring system for stack emissions and the effluent, shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard.
- (s) Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions. Raw material storage should not exceed 3 days at any point of time.
- (t) The energy sources for lighting purposes shall preferably be LED based. A minimum of 10-20% of the total power requirement for the industrial operations shall be met from non-conventional energy resources/solar supply

12.1 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).




- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
- (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.
- (xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.



13. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.


14. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

15. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.


22/2/2018
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Secretary, Forests & Environment department, Government of Gujarat, Sachivalaya, **Gandhinagar** (Gujarat)
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, **Bhopal** – 462016 (Madhya Pradesh)
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Gujarat Pollution Control Board, 'Parishram', Mahavir Society, Shanala Road, **Morbi** (Gujarat)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, **New Delhi**
6. Guard File/Monitoring File/Record File


22/2/2018
(S. K. Srivastava)
Scientist E

**COMPLIANCE OF THE CONDITIONS STIPULATED IN
THE ENVIRONMENTAL CLEARANCE ACCORDED BY
MOEFCC, NEW DELHI VIDE LETTER NO.: F.No.J-
11011/320/2016-IA II (I) DATED 22.02.2018**

**COMPLIANCE OF THE CONDITIONS STIPULATED IN THE ENVIRONMENTAL CLEARANCE
ACCORDED BY MOEFCC, NEW DELHI VIDE LETTER NO.: F.No.J-11011/320/2016-IA II (I) DATED
22.02.2018**

S.No.	Compliance Conditions by MoEF&CC	Action taken by Birla Cellulosic																		
1.	Based on the proposal submitted by the project proponent and subsequent recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project ' Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA and Coal based CPP from 25 MW to 45 MW ' by M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) in a total area of 242.81 ha, at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006, subject to the compliance of term and conditions as below:-	<ul style="list-style-type: none"> Noted & shall be complying with all terms and conditions. 																		
(a)	Consent to Establish/operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	<ul style="list-style-type: none"> According to market scenario, In first phase, we have increase the production capacity upto 390 TPD (350 Existing+40 Debottlenecking) and In second phase,capacity enhance upto430 TPD as against 640 TPD(233600 TPA) as mentioned in EC. Provisional copy for CCA-Amendment is attached as Annexure 1. 																		
(b)	Total fresh water requirement shall not exceed 22,286 KLD proposed to be met from Kim River water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.	<ul style="list-style-type: none"> Total average fresh water requirement is 15698 KLD. Tubular data for Fresh Water Consumption for period of April'19 to Sept'19 as mentioned below: <table border="1" data-bbox="863 1451 1410 1839"> <thead> <tr> <th>Month</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>April'19</td> <td>15361</td> </tr> <tr> <td>May'19</td> <td>14815</td> </tr> <tr> <td>June'19</td> <td>15916</td> </tr> <tr> <td>July'19</td> <td>15552</td> </tr> <tr> <td>August'19</td> <td>15595</td> </tr> <tr> <td>September'19</td> <td>16952</td> </tr> <tr> <td>Total (KL)</td> <td>94191</td> </tr> <tr> <td>Average (KLPD)</td> <td>15698</td> </tr> </tbody> </table> 	Month	Quantity	April'19	15361	May'19	14815	June'19	15916	July'19	15552	August'19	15595	September'19	16952	Total (KL)	94191	Average (KLPD)	15698
Month	Quantity																			
April'19	15361																			
May'19	14815																			
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July'19	15552																			
August'19	15595																			
September'19	16952																			
Total (KL)	94191																			
Average (KLPD)	15698																			
(c)	Total effluent discharge after treatment shall not exceed 11535 cum/day to be discharged to the Kim Estuary through 23 km long pipeline. The effluent discharge shall confirm to the standards prescribed under the Environment (Protection) Rules,	<ul style="list-style-type: none"> A separate 24 KM long underground pipeline for discharging the treated effluent in the estuary of Kim River has been installed as approved by GPCB. The pipeline passes through 8 Nos. of villages and 213 private farm lands, and we have 174 ROUs with the 																		

	<p>1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.</p>	<p>land owners. The disposal point was suggested by NIO, Goa.</p> <ul style="list-style-type: none"> Tubular data for Industrial effluent discharge towards Kim estuary via 24 km pipeline for period of April'19 to Sept'19 as mentioned below: <table border="1" data-bbox="852 394 1425 775"> <thead> <tr> <th>Month</th> <th>Quantity(KLPD)</th> </tr> </thead> <tbody> <tr> <td>April'19</td> <td>9722</td> </tr> <tr> <td>May'19</td> <td>10044</td> </tr> <tr> <td>June'19</td> <td>10242</td> </tr> <tr> <td>July'19</td> <td>10415</td> </tr> <tr> <td>August'19</td> <td>9971</td> </tr> <tr> <td>September'19</td> <td>9471</td> </tr> <tr> <td>Total (KL)</td> <td>59865</td> </tr> <tr> <td>Average (KLPD)</td> <td>9977.5</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Copy of the monitoring results of effluent discharged for the last 6 months is attached as Annexure 2. 	Month	Quantity(KLPD)	April'19	9722	May'19	10044	June'19	10242	July'19	10415	August'19	9971	September'19	9471	Total (KL)	59865	Average (KLPD)	9977.5
Month	Quantity(KLPD)																			
April'19	9722																			
May'19	10044																			
June'19	10242																			
July'19	10415																			
August'19	9971																			
September'19	9471																			
Total (KL)	59865																			
Average (KLPD)	9977.5																			
(d)	<p>Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.</p>	<ul style="list-style-type: none"> Unit having valid CCA up to 11.04.2024 for 430 TPD VSF having CCA order No. AWH-104181, and for 390 TPD having CCA order No. AWH-101226 which including Hazardous waste authorization. 																		
(e)	<p>National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608 (E) dated 21st July, 2010 and amended from time to time shall be followed.</p>	<ul style="list-style-type: none"> Not applicable as we are manufacturing Viscose Staple Fiber. 																		
(f)	<p>To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers (2x100 & 1x120 TPH) to control particulate emissions within permissible limits. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.</p>	<ul style="list-style-type: none"> All the standards stipulated for SO₂, NO_x and Particulate matter are being followed. Unit has installed lime injection system for reduce sulphur content in the coal for use in coal fired boilers which does not exceed 0.5% of sulphur content in boiler (2x100 & 1x120 TPH) to control particulate emissions within permissible limits. Gaseous emissions for stack and Ambient Air Quality Monitoring are carried out regularly and copies of the same for the last 6 months are attached as Annexure 3. Online monitor for SO₂, NO_x, PM for monitoring the emissions from Power Plant are provided, which is connected with GPCB/CPCB server. 																		
(g)	<p>Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard</p>	<ul style="list-style-type: none"> Process effluent/any wastewater is not allowed to mix with storm water. Storm water drain is passed through guard pond. 																		

	pond.	
(h)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	<ul style="list-style-type: none"> Hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided on tank farm and solvent transfer through pumps.
(i)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	<ul style="list-style-type: none"> Viscose staple fibre is the main product. Hence, there is no organic residue and spent carbon generating from our plant. 100% of the ETP sludge generated is provided to cement manufacturer - M/s Ultratech Cement, Surat as stipulated in CCA.
(j)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	<ul style="list-style-type: none"> The Company will strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals will be as per the Motor Vehicle Act (MVA), 1989.
(k)	The company shall undertake waste minimization measures as below:- i. Metering and control of quantities of active ingredients to minimize waste. ii. Reuse of by-products from the process as raw material substitutes in other processes. iii. Use of automated filling to minimize spillage. iv. Use of Close Feed system into batch reactors. v. Venting equipment through vapor recovery system. vi. Use of high pressure hoses for equipment clearing to reduce wastewater generation.	<ul style="list-style-type: none"> The unit will undertake waste minimization measures. To minimize quantity of waste the unit will explore techniques and is implementing some operational changes. By-products from the process are reused as raw material substitutes in other processes. Automated filling is done to minimize spilling and also closed feed system is used for the continuous process reactors. Venting equipment are used for vapor recovery system and for reduction of wastewater generation during equipment clearing high pressure hoses are used.
(l)	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	<ul style="list-style-type: none"> Green belt has been developed in the campus along the boundary wall and open spaces. Totally 1,85,000 trees have been planted in the premises in such a way that density of plantation is 1000 trees per acre and green belt of 30 meters width has been developed. As per the directives of DoEF, we have also planted Mangrove in 100 Ha. at Raniyo Island spending to Rs. 20.00 Lacs.
(m)	All the commitments made regarding issues raised during the public hearing/consultation meeting held on 30 th	All the public hearing commitments made regarding issues raised are being implemented satisfactorily.

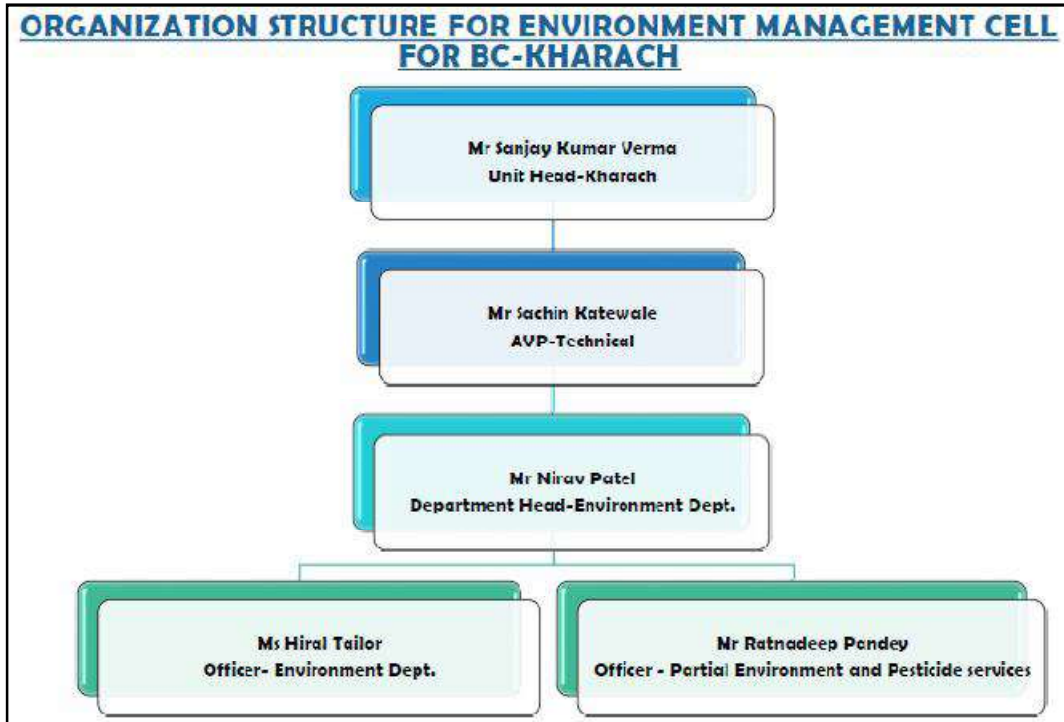
	August, 2017 shall be satisfactorily implemented.	
(n)	At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	<ul style="list-style-type: none"> Unit has used partially production increase quantity and prorata basis 2.5 % of the total project cost has been allocated for Enterprise Social Commitment based on item-wise details along with time bound action plan has been prepared and submitted to the Ministry's Regional Office.
(o)	The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.	<ul style="list-style-type: none"> Proper arrangements for the control of noise from drilling activity have been taken care off. D.G Sets are provided with proper acoustic enclosures and adequate stack height.
(p)	The unit shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	<ul style="list-style-type: none"> During manufacturing process in material handling the unit has made all the arrangements for protection of possible fire hazards and the fire fighting systems are as per the norms.
(q)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<ul style="list-style-type: none"> Awareness programs are being conducted on health by CMO and by ABC Emergency Code Red. First aid training is being arranged on periodic interval, which covers all categories of employees, workmen. Medical check-up is being done six monthly, for those employees who engaged in handling hazardous substances at work place area. All the Employees are covered under Health Survey Medical records of employees and contract workers are maintained online and individual person can see the read only data for current and past health record for himself only from any computer in Unit.
(r)	Continuous online (24x7) monitoring system for stack emissions and the effluent, shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and the effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard.	<p><u>For effluent monitoring:</u></p> <ul style="list-style-type: none"> Online TOC Meter, Shimadzu, Japan has been installed and this is connected to the GPCB online server. <p><u>For Stack Monitoring:</u></p> <ul style="list-style-type: none"> Online monitor is provided for SO₂, NO_x, and PM for monitoring the emissions from Power Plant. Online stack monitoring system at CPP is provided& connected with GPCB/CPCB server. Online stack monitoring systems are installed with Rayon and CS₂ plant & SO₂ analyzer also installed at Acid plant.
(s)	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions. Raw material storage should not exceed 3 days at any point of time.	<ul style="list-style-type: none"> Individual storage yard, coal yard have been identified by unit for storage of raw material. EC amendment has been obtained for specific condition, which mentioned that Raw material

		storage shall not exceed 30 days at any point of time.
(t)	The energy sources for lighting purposes shall preferably be LED based. A minimum of 10-20% of the total power requirement for the industrial operations shall be met from non-conventional energy resources/solar supply.	<ul style="list-style-type: none"> • Unit has already replaced energy source as LED based for lighting purpose in plant as well as colony area. • Unit is being in process to install renewable energy at plant site to meet the requirement of a minimum of 10-20% of the total power requirement for the industrial operations through hybrid non-conventional energy source.
12.1	The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:	-
(i)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and/ or any other statutory authority.	<ul style="list-style-type: none"> • Unit is in compliance for the conditions and standard stipulated in consolidated consent and authorization. • Compliance report for CCA is attached as Annexure 4.
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess adequacy of the conditions imposed and to add additional environmental protection measures required, if any.	<ul style="list-style-type: none"> • Noted. No further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.
(iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in upward and downward direction as well as where maximum ground level concentrations are anticipated.	<ul style="list-style-type: none"> • 3 locations for ambient air quality stations, monitoring station have been finalized in consultation with the GPCB.
(iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be complied with.	National Ambient Air Quality Emission Standards issued by Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 are being complied. Analysis report for same is attached as Annexure 3.
(v)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels	<ul style="list-style-type: none"> • Quarterly monitoring the noise level in and around the plant area is being conducted. • Noise level reading measurement results have been enclosed as Annexure 5.

	shall conform to the standards prescribed under Environment (Protection) Act, 1986 viz. 75 dBA (day time) and 70 dBA (night time).The ambient noise levels shall conform to the standards prescribed under the Environment (P) Rules,1989 viz.75 dBA (day time) and 70 dBA (night time)	
(vi)	The Company shall harvest rainwater from the tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Rainwater is being harvested to conserve the fresh water and recharge the ground water. In the Monsoon season approx. 10000 M ³ was conserved.
(vii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	<ul style="list-style-type: none"> • All the employees have been provided with proper training to handle any emergency and periodically hired the experts for training also. • Safety video for employees and visitors has been prepared. All important safety information contains guide templates provided and educate more about safety at work place. • PPE has been made compulsory when people enter from plant gate#2. Identified the area where more precautionary PPE's required like coal handling area, lime handling area, CS2 plant, etc. • Provision of PPE's like safety shoes, safety goggles, dust mask, ear plug has been made by the unit for all employees and visitors. Additionally, extra care of PPE's has also been provided to those who work at critical area.
(viii)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	<ul style="list-style-type: none"> • Unit complies with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. • Implementation of all the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing is being done.
(ix)	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	<ul style="list-style-type: none"> • Various community development measures in and around 32 villages has been taken by the Unit and no of beneficiaries covered in FY'19 (April'18 to March'19). Social report for FY'19 is attached as Annexure 6. • RO plants have been installed at 17 villages in association with village Panchayat and WASMO (Water & Sanitation Management Organization), & awarded with "4th EKDKN Exceed Award - 2018" –

		<p>“Silver Award” on 25th March 2019 at India Habitat Centre, New Delhi for the outstanding the achievement apart of CSR in mfg. sector.</p> <ul style="list-style-type: none"> • A separate budget allocated for the same.
(x)	A separate Environment Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	<ul style="list-style-type: none"> • A separate environment management cell is constituted under the leadership of Facility Head. • Organization chart is attached below.

EMC Structure



(xi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	<ul style="list-style-type: none"> • Separate budget to meet the recurring cost for maintaining the environment cost for all instrument, pipe line and ETP has been earmarked by the Unit. • Capital and recurring fund is not diverted for other purposes.
(xi)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	A copy of clearance letter has been submitted to District Industries Centre, District Panchayat, Collector Office, GPCB-RO & GPCB-HO. Acknowledge copy for same is attached as Annexure 7 .

(xiii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	<ul style="list-style-type: none">• Six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) is being submitted to Regional Office, MoEF&CC, Bhopal and Zonal office, CPCB and SPCB.• Copy of Acknowledge letter for compliance report submitted on 25.06.2019 is enclosed as Annexure 8.
(xiv)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as per prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, Shall also be put on the website of the company along with the status of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.	<ul style="list-style-type: none">• The environmental statement for each financial year ending 31st March in Form-V is being submitted to Gujarat State Pollution Control Board as per prescribed under the Environment (Protection) Rules, 1986, as amended subsequently.• Unit is being submitted to Regional office of MOEF&CC by mail and same has been submitted to company website.
(xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	<ul style="list-style-type: none">• Advertisement has been published within 7 days from the date of issue of the clearance letter and copy forwarded to Ministry's Regional Office at Bhopal. Refer EC advertisement copy is enclosed below.

PUBLIC NOTICE
ENVIRONMENTAL CLEARANCE

It is hereby informed that the Ministry of Environment, Forests and Climate Change, IA Division, Government of India, New Delhi, has accorded Environmental Clearance for Expansion of Viscose Staple Fibre Unit & Coal based CPP at Birladham, Village Kharach, Tehsil Hansot Dist. Bharuch (Gujarat) of M/s. Birla Cellulosic (A unit of M/s. Grasim Industries Ltd.) vide letter No. J-11011/320/2016-IA II (I) dated 22/02/2018, under the provision of EIA Notification dated 14th September 2006.

Copies of Clearance letter are available with the SPCB and may also be seen at website of MoEFCC, www.envfor.nic.in

Date : 22/02/2018
Place : KHARACH

UNIT HEAD
M/S. BIRLA CELLULOSIC

English Advertisement

જાહેર સૂચના
(પર્યાવરણ મંજૂરી)

આ સાથે જણાવવામાં આવે છે કે પર્યાવરણ વન અને ક્લાઇમેટ ચેન્જ મંત્રાલય આઈ.એ. વિભાગ, ભારત સરકાર, નવી દિલ્હી દ્વારા મેસર્સ બિરલા સેલ્યુલોઝીક (મેસર્સ ગ્રાસીમ ઇન્ડસ્ટ્રીસનો યુનિટ) બિરલાધામ, ગામ: ખરચ, તાલુકા: હાસોટ, જિલ્લો: ભરૂચ (ગુજરાત) ખાતે વિસ્કોસ સ્ટેપલ ફાઇબર યુનિટ અને કોલ બેઝેડ સી.પી.પી. પ્લાન્ટના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી તારીખ ૨૨/૦૨/૨૦૧૮ ના પત્ર ક્રમાંક J-11011/320/2016-IA II (I) દ્વારા ઈ.આઈ.એ. નોટીફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ ખેતવાઈ હેઠળ આપેલ છે.

ઉપરોક્ત પત્રની નકલ સ્ટેટ પોલ્યુશન કંટ્રોલ બોર્ડ ઉપરાંત MoEF ની વેબસાઈટ www.envfor.nic.in ઉપર ઉપલબ્ધ છે.

તારીખ: ૨૨/૦૨/૨૦૧૮
સ્થળ: ખરચ

યુનિટ હેડ
મેસર્સ બિરલા સેલ્યુલોઝીક

Gujarati Advertisement
